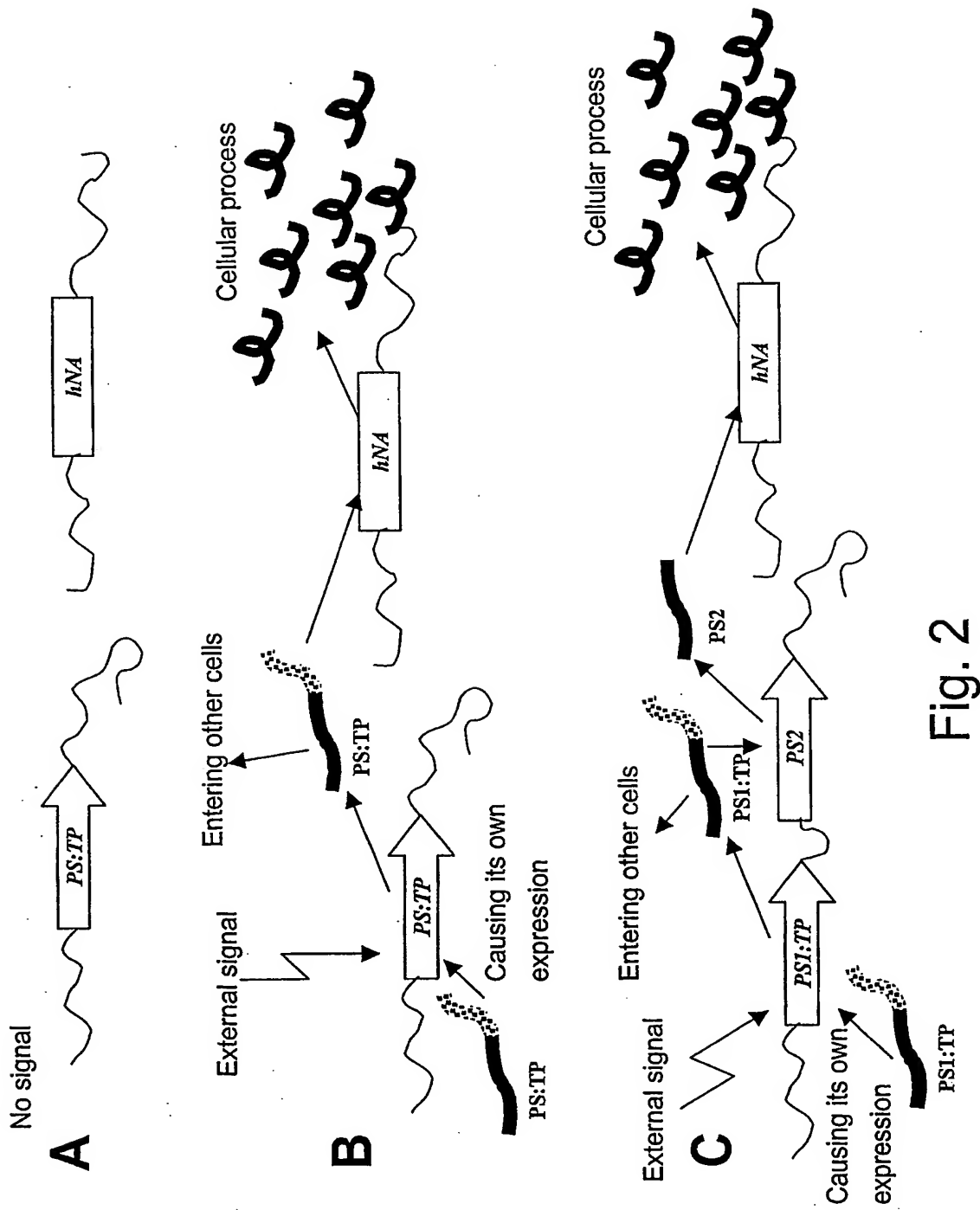


Fig. 1



The diagram illustrates the genetic constructs and recombination pathways for the pICH system. It is divided into two main sections: **pICHtestGus** and **pICHrecomb**.

pICHtestGus (top section) contains the following elements from left to right:

- LB** (Left Border)
- SM** (Shuttle Vector Origin)
- 35S prom** (35S Promoter)
- LoxP** (LoxP site)
- SGFP** (Strong GFP)
- Nos ter** (Neomycin resistance terminator)
- LoxP** (LoxP site)
- GUS** (Gus gene)
- Ocs ter** (Oncogene coding sequence terminator)
- RB** (Right Border)

pICHrecomb (bottom section) contains the following elements from left to right:

- LB** (Left Border)
- SM** (Shuttle Vector Origin)
- Actin2 prom** (Actin2 Promoter)
- LoxP** (LoxP site)
- Ocs ter** (Oncogene coding sequence terminator)
- Nos ter** (Neomycin resistance terminator)
- LoxP** (LoxP site)
- Recombinase:MP** (Recombinase Multiple Packaging)
- RB** (Right Border)

Recombination Pathways:

- MTS:recombinase** (Multiple Targeting Site) is shown as a dotted line with an arrow pointing to the **LoxP** site in the **pICHtestGus** construct.
- Recombinase:TP** (Recombinase Targeted Promoter) is shown as a thick black line with an arrow pointing to the **LoxP** site in the **pICHrecomb** construct.
- Recombination** is indicated by arrows between the **LoxP** sites in both constructs, leading to the formation of a **Recombinase:TP** construct.
- Recombinase expressed** is shown as a thick black line with an arrow pointing to the **Recombinase:TP** construct.
- Recombinase not expressed** is shown as a thick black line with an arrow pointing to the **Recombinase:TP** construct.
- Recombinase:TP** is shown as a thick black line with an arrow pointing to the **Recombinase:TP** construct.
- Recombinase:TP** is shown as a thick black line with an arrow pointing to the **Recombinase:TP** construct.
- Recombinase:TP** is shown as a thick black line with an arrow pointing to the **Recombinase:TP** construct.

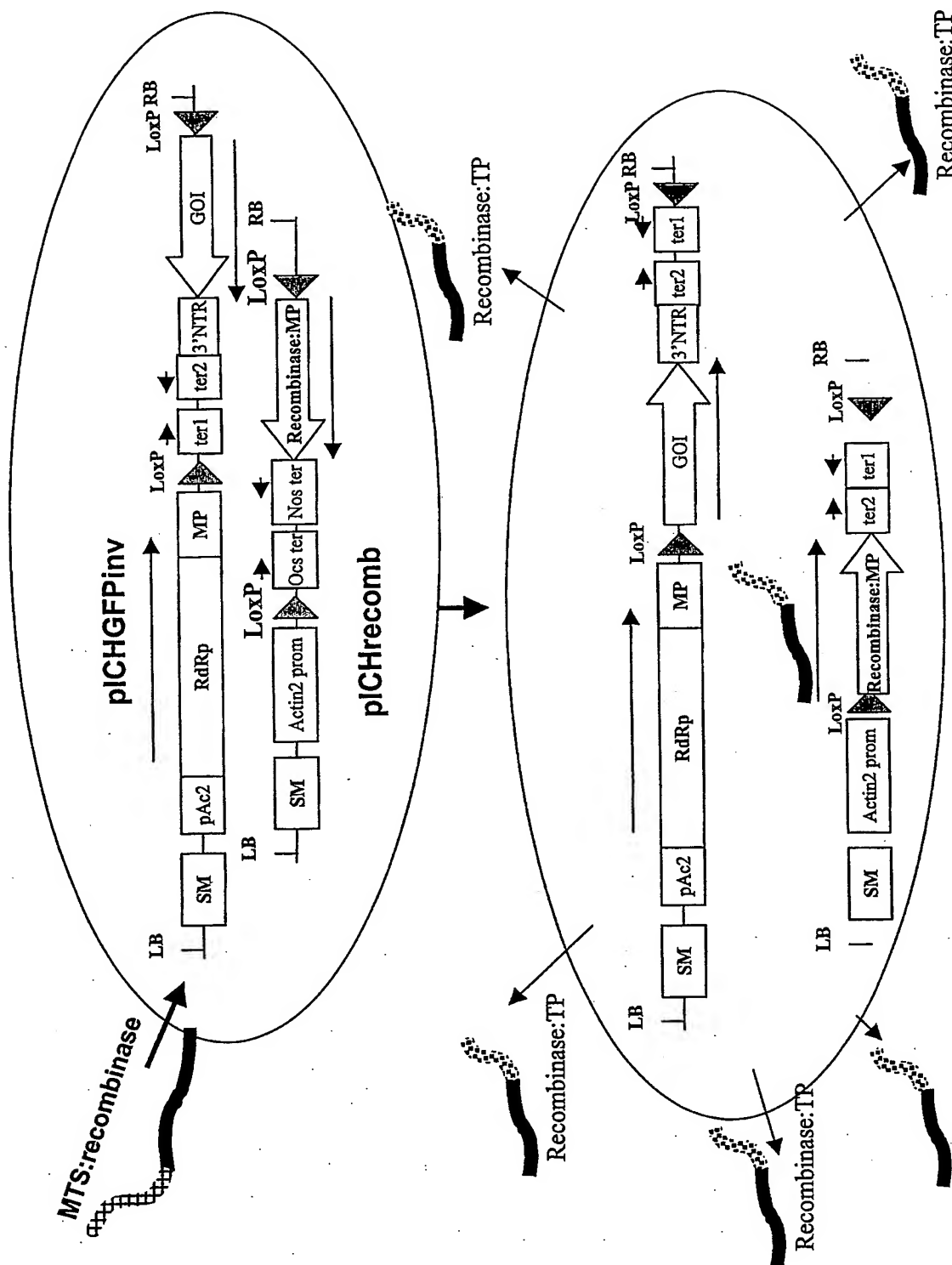


Fig. 5

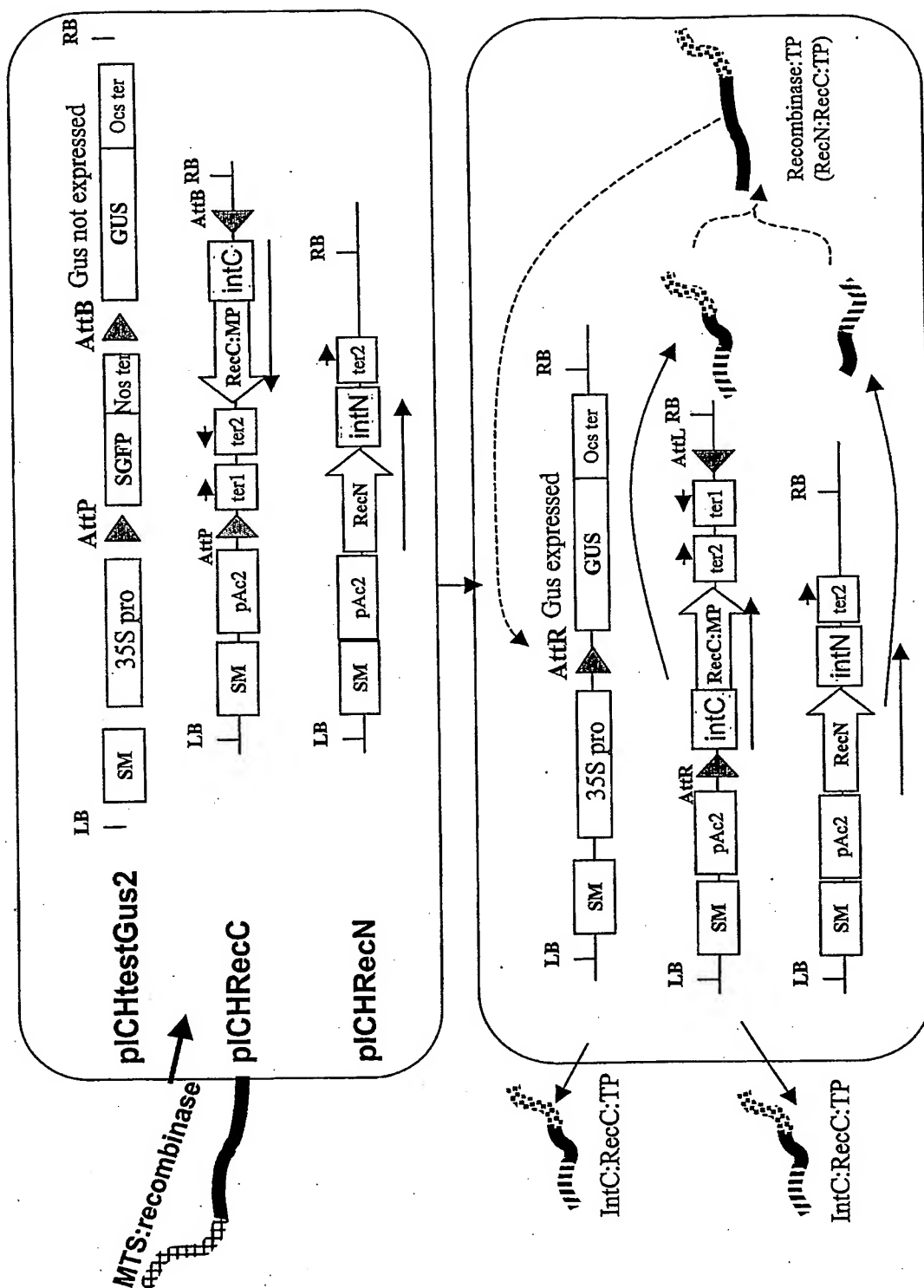


Fig. 6

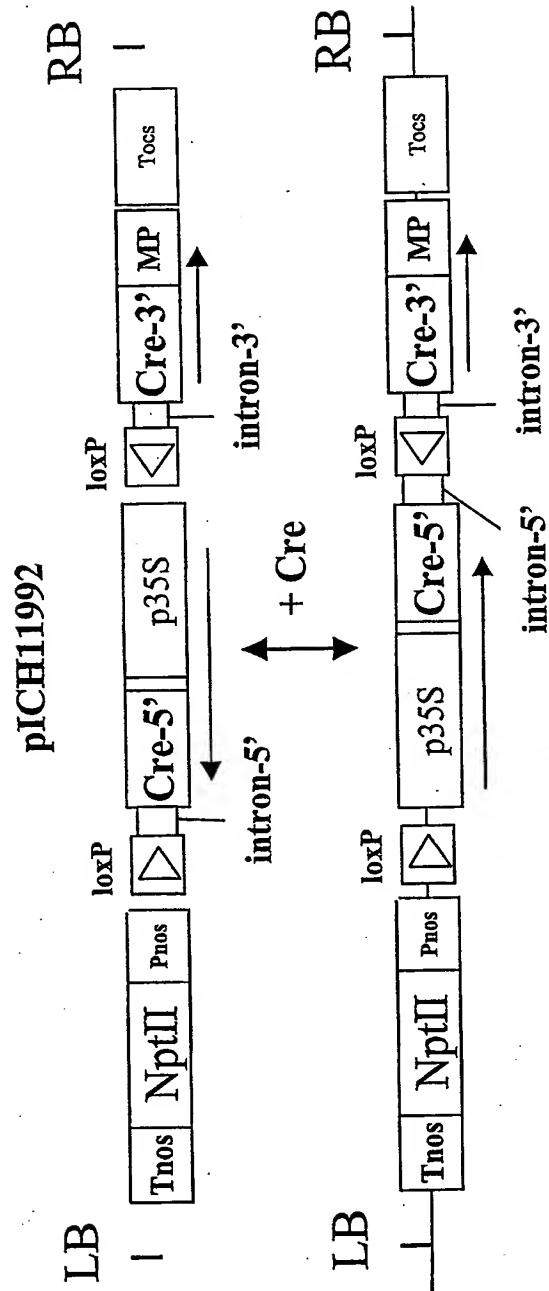


Fig. 7A

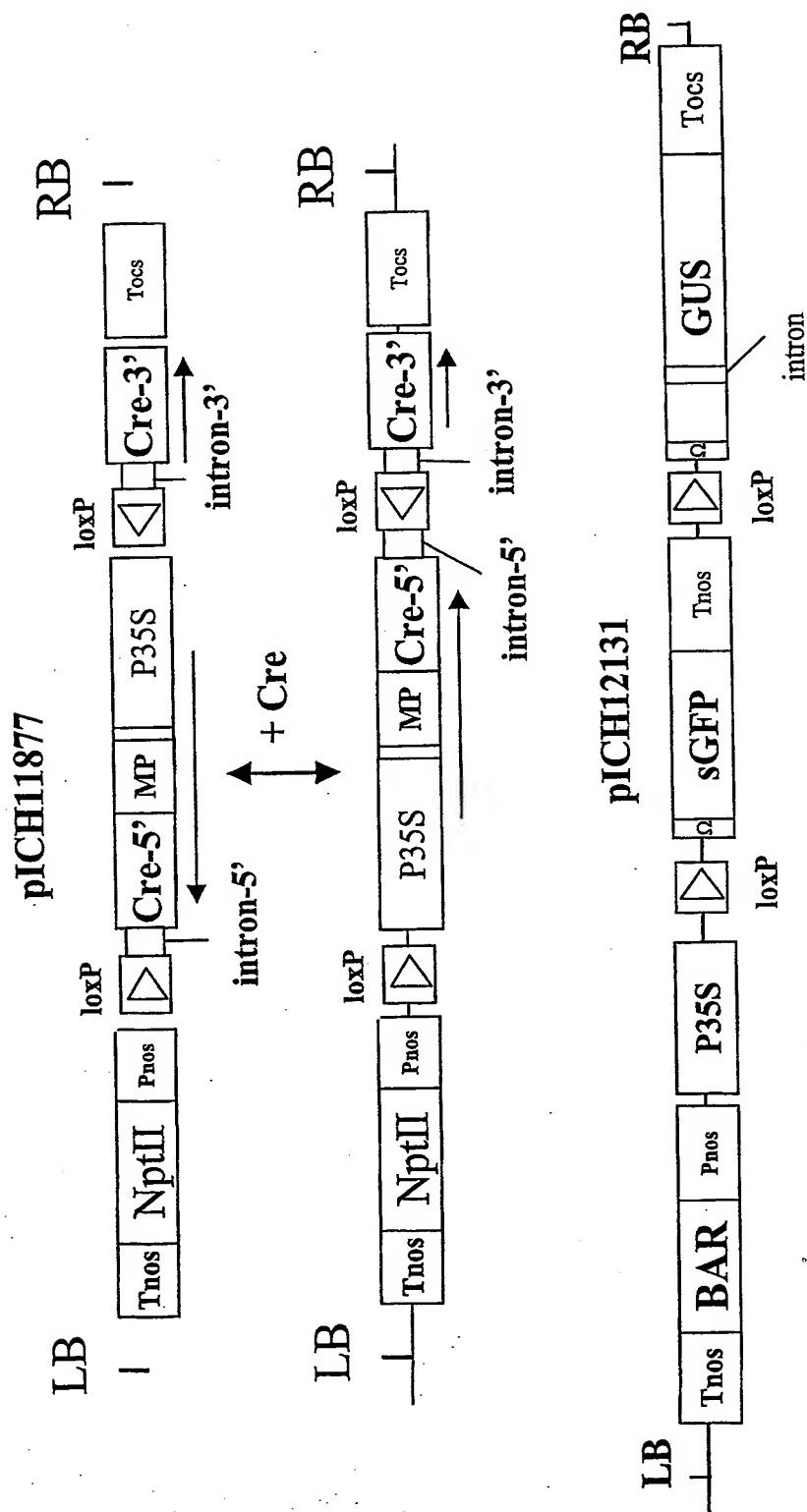


Fig. 7B